

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 February 2002 (28.02.2002)

PCT

(10) International Publication Number
WO 02/17654 A2

(51) International Patent Classification⁷: **H04Q 7/00**

(21) International Application Number: PCT/US01/21583

(22) International Filing Date: 9 July 2001 (09.07.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/643,603 22 August 2000 (22.08.2000) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

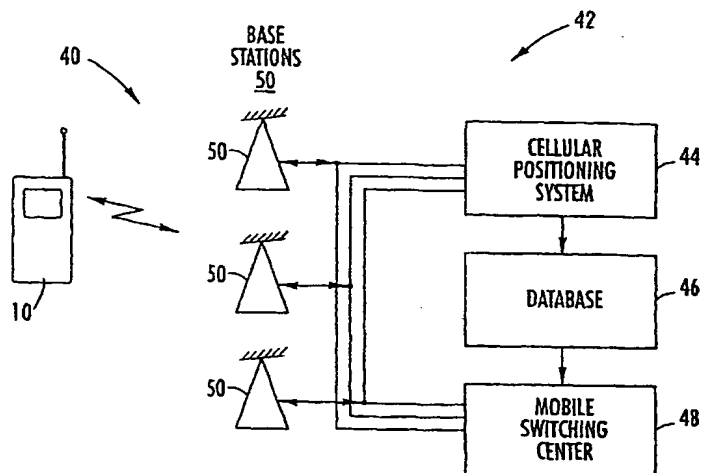
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR IDENTIFYING ITEMS OF INTEREST THAT ARE GEOGRAPHICALLY PROXIMATE TO WIRELESS COMMUNICATOR USERS**



(57) Abstract: Systems, methods, and computer program products for identifying items of interest within a predetermined proximity of a geographic location of a user of a wireless communicator, or of geographic locations of interest to a user, are provided. A communications network carrier detects (or receives) a geographic location of (or from) a user. The distance between the detected (or received) geographic location and one or more items of interest to the user is determined. User interests are registered with the carrier (or with a third party). A determination is made whether the detected or received geographic location is within a predetermined proximity of an item associated with a registered interest to the user. If one or more items of interest to the user are within a predetermined proximity of the geographic location, the user is notified of the existence of the one or more items of interest. Additional information about each item of interest may also be provided.

22553 U.S. PTO
10/762589



WO 02/17654 A2

SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR
IDENTIFYING ITEMS OF INTEREST THAT ARE GEOGRAPHICALLY
PROXIMATE TO WIRELESS COMMUNICATOR USERS

FIELD OF THE INVENTION

The present invention relates generally to telecommunications and, more particularly, to mobile telecommunications.

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CROSS-REFERENCE TO RELATED APPLICATION

The present application is related to commonly assigned U.S. Patent Application No. _____, entitled *Methods, Mobile User Terminals, and Systems for Controlling Access to Mobile User Terminal Location Information*, (Attorney Docket 8194-429/P11742), filed concurrently herewith, the entire disclosure of which is incorporated herein by reference.

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BACKGROUND OF THE INVENTION

With the advent and development of mobile telecommunications systems and technologies, the use of wireless communication devices, such as radiotelephones, is increasing worldwide. As such, users may becoming decreasingly bound to wireline terminals or devices for telecommunications functions. Moreover, calling parties may not need to know where a user of a wireless communications device is physically located in order to establish a call with the user.

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Notwithstanding the benefits of mobile telecommunications, it would be desirable in certain situations to communicate with a mobile user based on the physical location of the mobile user. Moreover, it would be desirable to mobile telecommunications users to receive information that is geographically-specific. Unfortunately, such services may be limited and may not be widely available.

SUMMARY OF THE INVENTION

In view of the above, the present invention provides systems, methods, and computer program products for identifying items of interest within a predetermined proximity of a geographic location of a user of a wireless communicator, or of a geographic location of interest to the user. According to an embodiment of the present invention, a wireless communicator (e.g., a radiotelephone) communicates via a communications network operated by a carrier. The carrier detects the geographic location of the wireless communicator, or alternatively, receives an identification of the geographic location of the wireless communicator from the wireless communicator. The distance between the detected (or received) geographic location of the wireless communicator and one or more items of interest to the user is determined.

Each user has interests (e.g., hobbies, professional interests, vacation interests, and the like) registered with the carrier (or with a third party). Furthermore, geographic locations of items (e.g., commercial and non-commercial entities, such as stores, landmarks, tourist spots, historical places,

and the like) that are associated with these interests are also maintained by the carrier (or by a third party). A determination is made whether the detected (or received) geographic location of the wireless communicator is within a predetermined proximity of an item of interest to the user.

If one or more items of interest to the user are within a predetermined proximity of the geographic location of the wireless communicator (i.e., the user's location), the user of the wireless communicator is notified of the existence of the one or more items of interest. User notification may be accomplished in various ways. For example, the communications network may support short message service (SMS) and user notification may include sending SMS messages to the wireless communicator. Alternatively, user notification may include sending voice communications to the user via the wireless communicator.

Preferably, the value of a "predetermined proximity" is user configurable. It is preferred that the value of a predetermined proximity be different for different items of interest. Moreover, it is preferred that a user be able to modify proximity values via his/her wireless communicator or via other communications devices.

According to another embodiment of the present invention, a user who has been notified of one or more items of interest that are within a predetermined proximity of the user's location may be given the opportunity to obtain additional information (i.e., more information than just the geographic location of the one or more items of interest) about the one or more items of interest. If the user wishes to receive additional information, the additional

information may be provided to the user in various ways. For example, additional information may be included with a notification sent to a user or may be attached to the notification, for example as a document. Additionally, this additional information may be provided via a pointer, such as a wireless application protocol (WAP)-compatible uniform resource locator (URL), that is displayed within a user interface or display of a wireless communicator and that a user may activate to retrieve the additional information from a web site or other external source.

According to another embodiment of the present invention, a communications network carrier may seek authorization from the user to forward the geographic location information (received or detected) to a third party that maintains interests of users and location and other information about items that are associated with user interests. The third party receiving the geographic location information then determines the distance between the detected (or received) geographic location of the wireless communicator and one or more items of interest to the user of the wireless communicator. According to this embodiment of the present invention, users register their interests with the third party. Furthermore, geographic locations of items (e.g., commercial and non-commercial entities) that are associated with these interests are also registered with and maintained by the third party. The third party determines whether the geographic location of the wireless communicator is within a predetermined proximity of an item of interest to the user. If items of interest are within a predetermined proximity of the geographic location, the user of the wireless communicator is notified of the

one or more items of interest.

According to another embodiment of the present invention, a user may send his or her geographic location to a communications network carrier (or to a third party) via his/her wireless communicator. Preferably, the user's wireless communicator is configured with a navigational system, such as a Global Positioning System (GPS), that is configured to determine a geographic location of the wireless communicator. In response, the user receives from the communications network carrier (or from a third party) information about one or more items of interest to the user that are located within a predetermined proximity of the reported geographic location of the user.

According to another embodiment of the present invention, a communications network carrier (or third party) may receive an identification of a geographic location from a user, either via a wireless communicator or a wireline communications device. The carrier (or third party) receiving the geographic location information determines the distance between the identified geographic location and one or more items of interest to the user. The carrier (or third party) determines whether the geographic location of the wireless communicator is within a predetermined proximity of an item of interest to the user. If there are one or more items of interest within a predetermined proximity of the identified geographic location, the user of the wireless communicator is notified of the one or more items of interest.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a block diagram that illustrates embodiments of a wireless communicator that may be used in accordance with the present invention.

5 Fig. 2 is a block diagram that illustrates methods, wireless communicators, and systems for identifying items of interest to a user that are within a predetermined proximity of a geographic location of the user, according to an embodiment of the present invention.

10 Fig. 3 is a block diagram that illustrates methods, wireless communicators, and systems for identifying items of interest to a user that are within a predetermined proximity of a geographic location of the user, according to additional embodiments of the present invention.

15 Fig. 4 is a block diagram that illustrates methods and systems for identifying items of interest to a user that are within a predetermined proximity of a geographic location, according to an embodiment of the present invention.

20 Figs. 5-9 are flowcharts that illustrate operations for identifying items of interest to a user that are within a predetermined proximity of geographic locations, according to various embodiments of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

30 The present invention now is described more fully hereinafter with reference to the accompanying drawings, in which preferred embodiments of the invention are shown. This invention may, however, be embodied in many different forms and should not be

construed as limited to the embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art.

As will be appreciated by one of skill in the art, the present invention may be embodied as methods, devices, systems, and/or computer program products. Accordingly, the present invention may take the form of an entirely hardware embodiment, an entirely software embodiment or an embodiment combining software and hardware aspects. Software embodiments of the present invention do not depend on implementation with a particular programming language.

The present invention is also described using flowchart illustrations and block diagrams. It will be understood that each block (of the flowchart illustrations and block diagrams), and combinations of blocks, can be implemented by computer program instructions. These program instructions may be provided to a processor(s) within mobile user terminals (e.g., wireless communicators) and/or within a communications system, such that the instructions which execute on the processor(s) create means for implementing the functions specified in the block or blocks. The computer program instructions may be executed by the processor(s) to cause a series of operational steps to be performed by the processor(s) to produce a computer implemented process such that the instructions which execute on the processor(s) provide steps for implementing the functions specified in the block or blocks.

Accordingly, the blocks support combinations of means for performing the specified functions,

combinations of steps for performing the specified functions and program instruction means for performing the specified functions. It will also be understood that each block, and combinations of blocks, can be
5 implemented by special purpose hardware-based systems which perform the specified functions or steps, or combinations of special purpose hardware and computer instructions.

Although the present invention is described
10 herein by reference to radiotelephones, it will be understood that the present invention can be embodied in other types of wireless communicators such as portable computers, handheld computers, personal digital assistants (PDAs), and the like. In addition,
15 the present invention may be embodied in a type of radiotelephone commonly referred to as a web phone or web-enabled radiotelephone.

Radiotelephones generally refer to communications terminals which provide a wireless
20 communications link to one or more other communications terminals. Radiotelephones may be used in a variety of different applications, including cellular telephone, land-mobile (e.g., police and fire departments), and satellite communications systems. Hereinafter, the
25 terms "wireless communicator" and "radiotelephones" shall be used interchangeably.

Fig. 1 is a block diagram of a radiotelephone
10, according to embodiments of the present invention. The radiotelephone 10 can be used to communicate within
30 a wireless communications system operated by a carrier. In the telecommunications industry, a carrier is a telephone or other company that sells or rents telecommunication transmission services. A local

exchange carrier (LEC) is a local phone company and an inter-exchange carrier (IEC or IXC) carries long-distance calls.

Wireless communications systems are commonly employed to provide voice and data communications to subscribers. For example, analog cellular radiotelephone systems, such as those designated AMPS, ETACS, NMT-450, and NMT-900, have long been deployed successfully throughout the world. Digital cellular radiotelephone systems, such as those conforming to the North American standard IS-54 and the European standard GSM, have been in service since the early 1990's. More recently, a wide variety of wireless digital services broadly labeled as PCS (Personal Communications Services) have been introduced, including advanced digital cellular systems conforming to standards such as IS-136 and IS-95, lower-power systems such as DECT (Digital Enhanced Cordless Telephone) and data communications services such as CDPD (Cellular Digital Packet Data).

As shown in Fig. 1, the radiotelephone 10 includes a keypad 12 which can be used to provide input to the radiotelephone 10. The keypad 12 can include a plurality of keys that provide input to the radiotelephone 10 when pushed. For example, when the user wishes to initiate a call in a wireless communications system, the user pushes a series of keys that correspond to the number to be dialed. During the call, the user can speak into a microphone 14 which causes the radiotelephone 10 to generate communication signals which are transmitted from the radiotelephone 10. The user may listen to a speaker 16 that produces audio signals generated by the radiotelephone 10 from

communication signals received by the radiotelephone 10 during a call. The radiotelephone 10 transmits and receives the communication signals via a transceiver 18 over an antenna 20.

5 During operation, the user may refer to a display 22 of the radiotelephone 10 to observe information relevant to the operation of the radiotelephone 10, such as characters or numbers. For example, the display 22 can be a Liquid Crystal Display
10 (LCD) that displays, for example, a telephone number entered by the user or a name stored in the radiotelephone 10. The display 22 may also be used in conjunction with the keypad 12 such as when the user dials a number to place a call.

15 It will be understood that the functions of keypad 12 and the display 22 can be provided by a user interface to the radiotelephone 10. For example, the user interface can be a touch screen through which the user can view computer displayable documents, provide
20 input thereto, and control the radiotelephone 10.

 A processor 24 provides the communications signals to the transceiver 18 for transmission and receives the communications signals from the transceiver 18 for reception. For example, the
25 processor 24 provides communications signals to the transceiver 18 when the user speaks into the microphone 14 and receives communications signals from the transceiver 18 for the reproduction of audio through the speaker 16. The processor 24 generates characters
30 for display on the display 22. For example, the processor 24 generates numbers for display when the user enters a telephone number on the keypad 12.

Characters can also be generated by a character generator which is not shown. The microphone 14, speaker 16, keypad 12, and display 22 are coupled to the processor 24 which controls operations of the radiotelephone 10.

A radiotelephone 10, according to embodiments of the present invention, may include a navigational system 30 and an antenna 32. The navigational system 30 and antenna 32 can receive signals used to determine location information associated with the radiotelephone 10. The antenna 32 and the antenna 20 may be combined into a single antenna. In some embodiments, the navigational system 30 and antenna 32 are a Global Positioning System (GPS) receiver and antenna which receive GPS signals used to provide latitude and longitude information to the processor 24. The processor 24 can use the latitude and longitude information to determine the geographic location of the radiotelephone 10.

In other embodiments, geographic location information may be determined by receiving signals from a wireless communications system as described, for example, in U.S. Patent No. 5,982,324 to Watters et al., the disclosure of which is incorporated herein by reference in its entirety. Radiotelephones used in accordance with various embodiments of the present invention may use other methods and/or systems to determine geographic location information. In some embodiments the location information can be a cell or base station number in a wireless communications system, an address, or other information that can be used to indicate a geographic location of the radiotelephone 10.

Fig. 2 is a block diagram that illustrates embodiments of methods, wireless communicators, and systems (and wireless communicators and systems that may employ computer program products) for identifying items of interest to a user of a wireless communicator that are within a specific distance (referred to hereinafter as a "predetermined proximity") of a geographic location of the user, according to embodiments of the present invention. A system 40 configured to identify items of interest to a user of a wireless communicator that are within a predetermined proximity of a geographic location of the user, according to an embodiment of the present invention, includes a communications network 42 (such as a cellular radiotelephone network), operated by a carrier, a cellular positioning system 44, one or more databases 46, and a mobile switching center 48. The communications network 42 includes a plurality of geographically-dispersed base stations 44, as would be understood by those of skill in the art.

The term "database" refers to any type of data storage. The present invention is not limited to a particular type of database and/or other data storage technologies. Cellular positioning systems and mobile switching centers are well understood by those of skill in the art of radiotelephone communications and need not be described further herein.

The location of a wireless communicator (e.g., radiotelephone) 10 is tracked by the cellular positioning system (i.e., base-station equipment) 44 provided by the carrier. The database(s) 46 is maintained by the carrier (or by a third party) and includes information about various interests of a user,

including geographic locations of businesses and places (collectively referred to as "items") associated with these user interests. Exemplary user interests may include professional interests, hobbies and
5 recreational interests, vacation interests, religious interests, and the like. Exemplary items associated with user interests may include vacation spots, commercial businesses, religious institutions, tourist attractions, and the like.

10 As a user moves geographically, the cellular positioning system 44 detects the location of the user (i.e., the location of the radiotelephone 10). When a new location is detected (i.e., when the user has moved a predefined distance from a previous location), the
15 detected geographic location of the radiotelephone is compared with information stored within the database(s) 46 about one or more items associated with interests of the user. When an item of interest is determined to have a geographic location that is within a
20 predetermined proximity of the geographic location of the user, the user is notified via the mobile switching center 48.

Preferably, the predetermined proximity for an item of interest is configurable by a user via a
25 radiotelephone 10. For example, a user may wish to be notified when items of interest are within 10 miles or 50 miles of his or her geographic location. A predetermined proximity, according to the present invention, may have virtually any value. A
30 predetermined proximity, according to the present invention, may be stated in various dimensions including, but not limited to, feet, miles, meters, kilometers, and the like. Moreover, different values of

a predetermined proximity may be associated with different interests. For example, a user may wish to be notified when he or she is within a one mile proximity of a pizza vendor. The same user may wish to be notified when he or she is within a fifty mile proximity of a Monet or Picasso exhibit.

As an example of an embodiment of the present invention, a user may establish an account and register one or more interests with a database keeper (e.g., a carrier or a third party in communication with a carrier). For example, a user may have an interest in collecting Civil War relics. Accordingly, this user "interest" is maintained in the database 46. Also stored in the database 46 are locations of items that are associated with a user's interests, for example, the locations of shops that sell Civil War relics (as well as Civil War battlefields). As the user travels, his or her location is detected and a determination is made whether any items of interest to the user are within a predetermined proximity of the detected location.

If it is determined that a user is within a predetermined proximity of an item of interest, the user is notified of his/her proximity to the item of interest. This notification may, for example, take the form of a cellular telephone call to the user. The telephone call may deliver a prerecorded message or a synthesized voice message to the user. Alternatively, notification may take the form of a text message sent over a carrier's short message service (SMS) or other messaging service. SMS is described, for example, in U.S. Patent No. 5,915,222 to Olsson et al. entitled *Transporting Short Message Service (SMS) Messages*

Within A Telecommunications Network which is assigned to the assignee of the present invention, the disclosure of which is incorporated herein by reference in its entirety.

5 According to additional embodiments of the present invention, a notification to a user may include additional information about one or more items of interest that are located within a predetermined proximity of the detected geographic location of the
10 user. For example, directions to a shop that sells Civil War relics and the hours of operation of the shop may be provided to the user with the notification. It is understood that virtually any type of additional information may be provided to a user in accordance
15 with the present invention.

 Additional information may be included with the notification sent to a user or may be attached to the notification, for example as a document. Additionally, this additional information may be
20 provided via a pointer, such as a wireless application protocol (WAP)-compatible uniform resource locator (URL), that is displayed within a user interface or display of a radiotelephone 10 and that a user may
25 activate to retrieve the additional information from a web site or other external source.

 According to another embodiment of the present invention, a database(s) containing information about the interests of users and information about items associated with user interests may be maintained
30 by a third party. A radiotelephone according to embodiments of the present invention preferably is configured to allow a user to register one or more interests with a carrier and/or third party. A carrier may send the detected (or received) location of a user

to the third party who then performs operations for comparing the detected (or received) geographic location of the user with geographic locations of items of interest to the user, and for notifying the user when one or more items of interest to the user are located within a predetermined proximity of the detected (or received) geographic location of the user. According to another embodiment of the present invention, a carrier may seek user authorization to send a detected (or received) location of the user to the third party.

Referring now to **Fig. 3**, a wireless communicator **10**, such as a radiotelephone, may be equipped with a navigational system **30**, (such as a GPS receiver and antenna, as illustrated in **Fig. 1**). The navigational system **30** is configured to detect the geographic location of the radiotelephone. The radiotelephone **10** then sends its own geographic location directly to the carrier or to a third party via SMS or via a communications network control channel. The wireless communicator **10** may be configured to withhold transmission of its location if it has not moved recently. The wireless communicator **10** may also be configured to transmit its location only if it has been moved at least by a predetermined distance. The wireless communicator **10** may also be configured to transmit its location only during predetermined times of the day. Moreover, the wireless communicator **10** may also be configured to not transmit its location if it is within predefined geographic areas.

Referring to **Fig. 4**, another embodiment of the present invention is illustrated. A communications device **60**, such as a fixed/wireline terminal, having a

known geographic location to the communications network 42, is notified by the communications network 42, or by a third party, when an item of interest becomes registered within the database 46 maintained by the carrier, or by a third party, and the item of interest is associated with an interest of a user of the communications device 60 stored within the database 46. For example, if the user has a registered interest in "pizzas", the user is notified when a new pizza vendor opens shop within a predetermined proximity of the user's location and the pizza vendor has registered with the database 46.

According to another embodiment of the present invention, the communications device 60 may be notified of items of interest to the user when the user registers a new interest with the database 46 (and there are items of interest associated with the newly registered user interest registered with the database 46).

According to another embodiment of the present invention, a user may provide a communications network carrier (or a third party) with an identification of a geographic location, either via a wireless communications device 10 (Fig. 2) or via a fixed/wireline communications device 60 (Fig. 4) and receive information about items of interest in a predetermined proximity of the identified geographic location. For example, a user planning a trip to Iron City, West Virginia, may like to know about items associated with interests of the user near Iron City, West Virginia. If the user has an interest in ballet, and this interest is registered with a database 46 as described above, the user will be notified of ballet-

related items within a predetermined proximity of Iron City, West Virginia.

A carrier (or third party) may charge users for the above-described services. In addition, a
5 carrier (or third party) may charge businesses and other entities that register with a database service according to embodiments of the present invention.

Referring now to Fig. 5 operations for identifying items of interest within a predetermined
10 proximity of a geographic location of a user of a wireless communicator, according to an embodiment of the present invention, are illustrated. The wireless communicator (e.g., a radiotelephone) communicates via a communications network operated by a carrier. The
15 carrier detects (or receives) a geographic location of the wireless communicator (Block 100). For example, where the communications network is a cellular radiotelephone network having a plurality of geographically-dispersed base stations, detecting a
20 geographic location of a radiotelephone may include determining which base station the radiotelephone is in communications with. Alternatively, a wireless communicator may transmit its geographic location to the carrier.

25 The distance between the detected (or received) geographic location of the wireless communicator and one or more items of interest to the user of the wireless communicator is determined (Block 110). As described above, each user has one or more
30 interests registered with the carrier (or with a third party). Furthermore, geographic locations of items (e.g., commercial and non-commercial entities) that are associated with these interests are also maintained by

the carrier (or by a third party). A determination is made whether the geographic location of the wireless communicator is within a predetermined proximity of an item of interest to the user (Block 120). The numerical value of the proximity may be user-configurable. For example, a user may request the carrier (or third party) to notify him/her of certain types of items of interest that are within "X" miles of his/her geographic location and of other types of items of interest that are within "Y" miles of his/her geographic location, wherein "X" and "Y" can be any value (and in any units of measurement of distance).

If the answer at Block 120 is "No", operations return to Block 100. If the answer at Block 120 is "Yes", the user of the wireless communicator is notified of one or more items of interest that are located within a predetermined proximity of the geographic location of the wireless communicator (i.e., the user) (Block 130). User notification may be accomplished in various ways. According to an embodiment of the present invention, the communications network may include a short message service (SMS) and user notification may include sending one or more SMS messages to the wireless communicator. According to another embodiment of the present invention, user notification may include sending a voice communication to the user via the wireless communicator.

According to another embodiment of the present invention, a user who has been notified of one or more items of interest that are within a predetermined proximity of the user's location may be given the opportunity to obtain additional information (i.e., more information than just the geographic

location of the one or more items of interest) about the one or more items of interest (Block 140). If the user wishes to receive additional information (Block 140), the additional information may be provided to the user (Block 150) in various ways, as described above. For example, additional information may be included within the notification or may be attached to the notification, for example as a document. Additionally, this additional information may be provided via a pointer, such as a wireless application protocol (WAP)-compatible uniform resource locator (URL), that is displayed within a user interface or display of the wireless communicator and that a user may activate to retrieve the additional information from a web site or other external source.

If a user does not wish to receive additional information (Block 140), the user's billing records may be updated to reflect use of the notification service (Block 160), and operations return to Block 100. Similarly, after a user receives additional information (Block 150), the user's billing records may be updated to reflect use of the notification service (Block 160), and operations return to Block 100. In the illustrated embodiments, it is assumed that providing location and other information about items of interest to a user of a wireless communicator will be performed for a fee by a carrier and/or third party. As such, operations for updating the billing records for a user are included (Block 160). However, it is understood that providing location and/or other information about items of interest to a user in accordance with the present invention may be provided without charge to the user. As such, operations represented by Block 160 may be

eliminated or may be performed in another manner.

Referring now to **Fig. 6**, operations for identifying items of interest within a predetermined proximity of a geographic location of a user of a wireless communicator, according to another embodiment of the present invention, are illustrated.

A communications network carrier detects (or receives) a geographic location of a wireless communicator (Block 200) as described above. The carrier seeks authorization from the user to forward the geographic location information to a third party that maintains interests of users and location and other information about items that are associated with user interests (Block 202). If the user grants authorization to the carrier, the carrier sends the geographic location information to the third party (Block 204). If the user does not grant authorization, operations return to Block 200).

The third party receiving the geographic location information then determines the distance between the detected (or received) geographic location of the wireless communicator and one or more items of interest to the user of the wireless communicator (Block 210). According to this embodiment of the present invention, users may register their interests with the third party. Furthermore, geographic locations of items (e.g., commercial and non-commercial entities) that are associated with these interests are also maintained by the third party. The third party determines whether the geographic location of the wireless communicator is within a predetermined proximity of an item of interest to the user (Block 220). If the answer at Block 220 is "No", operations

return to Block 200. If the answer at Block 220 is "Yes", the user of the wireless communicator is notified of one or more items of interest to the user that are located within a predetermined proximity of the geographic location of the wireless communicator (i.e., the user) (Block 230). As described above, user notification may be accomplished in various ways, including, but not limited to, SMS communications and voice communications.

Additionally, a user who has been notified of one or more items of interest that are within a predetermined proximity of the user's location may be given the opportunity to obtain additional information (i.e., more information than just the geographic location of the one or more items of interest) about the one or more items of interest (Block 240). If the user wishes to receive additional information (Block 240), the additional information may be provided to the user (Block 250) in various ways, as described above.

If a user does not wish to receive additional information (Block 240), the user's billing records may be updated to reflect use of the notification service (Block 260), and operations return to Block 200. Similarly, after a user receives additional information (Block 250), the user's billing records may be updated to reflect use of the notification service (Block 260), and operations return to Block 200. As described above, operations represented by Block 260 may be eliminated or may be performed in another manner.

According to another embodiment of the present invention illustrated in Fig. 7, a user may send his or her geographic location to a communications network carrier (or to a third party) via his/her

wireless communicator (Block 300). Preferably, the user's wireless communicator has a navigational system configured to determine its geographic location. An exemplary navigational system that may be utilized in accordance with the present invention includes, but is not limited to, a global positioning system (GPS). In response, the user receives from the communications network carrier (or from a third party) information about one or more items of interest to the user that are located within a predetermined proximity of the geographic location of the user (Block 310).

As described above, user notification may be accomplished in various ways, including, but not limited to SMS communications and voice communications. Additionally, a user who has been notified of one or more items of interest that are within a predetermined proximity of the user's location may be given the opportunity to obtain additional information (i.e., more information than just the geographic location of the one or more items of interest) about the one or more items of interest.

According to another embodiment of the present invention illustrated in Fig. 8, a communications network carrier (or a third party) receives an identification of a geographic location from a user, either via a wireless communicator or a wireline communications device (Block 400). The carrier (or third party) receiving the geographic location information then determines the distance between the geographic location and one or more items of interest to the user (Block 410). The carrier (or third party) determines whether the identified geographic location is within a predetermined proximity of an item of

interest to the user (Block 420). If the answer at Block 420 is "No", operations return to Block 400. If the answer at Block 420 is "Yes", the user is notified of one or more items of interest to the user that are located within a predetermined proximity of the identified geographic location (Block 430). As described above, user notification may be accomplished in various ways, including, but not limited to SMS communications and voice communications.

Additionally, a user who has been notified of one or more items of interest that are within a predetermined proximity of a location of interest to the user may be given the opportunity to obtain additional information about the one or more items of interest (Block 440). If the user wishes to receive additional information (Block 440), the additional information may be provided to the user (Block 450) in various ways, as described above.

If a user does not wish to receive additional information (Block 440), the user's billing records may be updated to reflect use of the notification service (Block 460), and operations return to Block 400. Similarly, after a user receives additional information (Block 450), the user's billing records may be updated to reflect use of the notification service (Block 460), and operations return to Block 400. As described above, operations represented by Block 460 may be eliminated or may be performed in another manner.

Fig. 9 illustrates operations performed by a user wishing to receive information about items of interest that are within a predetermined proximity of an identified geographic location. A user sends an identification of one or more geographic locations of

interest to the user to a communications network carrier (or third party) (Block 500). In response, the user receives from the communications network carrier (or from a third party) information about one or more
5 items of interest to the user that are located within a predetermined proximity of the geographic location(s) of interest to the user (Block 510). For example, as described above, a user planning a trip to Iron City, West Virginia, may wish to know about items located
10 near Iron City, West Virginia that are associated with interests of the user.

The foregoing is illustrative of the present invention and is not to be construed as limiting thereof. Although a few exemplary embodiments of this
15 invention have been described, those skilled in the art will readily appreciate that many modifications are possible in the exemplary embodiments without materially departing from the novel teachings and advantages of this invention. Accordingly, all such
20 modifications are intended to be included within the scope of this invention as defined in the claims. Therefore, it is to be understood that the foregoing is illustrative of the present invention and is not to be construed as limited to the specific embodiments
25 disclosed, and that modifications to the disclosed embodiments, as well as other embodiments, are intended to be included within the scope of the appended claims. The invention is defined by the following claims, with equivalents of the claims to be included therein.

30

THAT WHICH IS CLAIMED IS:

1. A method of identifying items of interest to a user of a wireless communicator that are within a predetermined proximity of a geographic location of the user, wherein the wireless communicator communicates via a communications network operated by a carrier, the method comprising the following steps:

detecting a geographic location of the wireless communicator;

comparing the detected geographic location of the wireless communicator with a geographic location of one or more items of interest to the user; and

notifying the user when one or more items of interest to the user are located within a predetermined proximity of the detected geographic location of the wireless communicator.

2. The method according to Claim 1, wherein the wireless communicator is a radiotelephone and wherein the communications network is a cellular radiotelephone network having a plurality of geographically-dispersed base stations, and wherein the detecting step comprises determining which base station the wireless communicator is in communications with.

3. The method according to Claim 1, wherein the predetermined proximity of a detected geographic location is configurable by the user via the wireless communicator.

4. The method according to Claim 1, wherein the communications network includes a short message

service (SMS) and wherein the notifying step comprises sending an SMS message to the wireless communicator.

5. The method according to Claim 1, wherein the notifying step comprises sending a voice communication to the wireless communicator.

6. The method according to Claim 1, wherein the notifying step further comprises the step of providing the user with additional information about the one or more items of interest that are located
5 within a predetermined proximity of the detected geographic location of the wireless communicator.

7. The method according to Claim 1, wherein interests of the user and geographic location information for items associated with user interests are maintained by the carrier.

8. The method according to Claim 1, wherein the carrier sends the detected geographic location of the wireless communicator to a third party, and wherein the comparing and notifying steps are performed by the
5 third party.

9. The method according to Claim 8, further comprising obtaining user authorization to send the detected geographic location of the wireless communicator to the third party.

10. A method of identifying items of interest to a user of a wireless communicator that are within a predetermined proximity of a geographic location of the user, wherein the wireless communicator
5 communicates via a communications network operated by a

carrier, the method comprising the following steps:

receiving information from the wireless communicator that indicates a geographic location of the wireless communicator;

10 comparing the geographic location of the wireless communicator with a geographic location of one or more items of interest to the user; and

notifying the user when one or more items of interest to the user are located within a predetermined
15 proximity of the geographic location of the wireless communicator.

11. The method according to Claim 10, wherein the wireless communicator has a navigational system configured to determine a geographic location of the wireless communicator.

12. The method according to Claim 10, wherein the communications network includes a short message service (SMS) and wherein the receiving step comprises receiving an SMS message from the wireless
5 communicator.

13. The method according to Claim 11, wherein the navigational system of the wireless communicator comprises a global positioning system (GPS) receiver.

14. The method according to Claim 10, wherein the predetermined proximity of the geographic location of the wireless communicator is configurable by the user via the wireless communicator.

15. The method according to Claim 10, wherein the communications network includes a short

message service (SMS) and wherein the notifying step
comprises sending an SMS message to the wireless
5 communicator.

16. The method according to Claim 10,
wherein the notifying step comprises sending a voice
communication to the wireless communicator.

17. The method according to Claim 10,
wherein the notifying step further comprises the step
of providing the user with additional information about
the one or more items of interest that are located
5 within a predetermined proximity of the detected
geographic location of the wireless communicator.

18. The method according to Claim 10,
wherein interests of a user and geographic location
information about items associated with user interests
are maintained by the carrier.

19. The method according to Claim 10,
wherein the carrier sends the detected geographic
location of the wireless communicator to a third party,
and wherein the comparing and notifying steps are
5 performed by the third party.

20. The method according to Claim 19,
further comprising obtaining user authorization to send
the detected geographic location of the wireless
communicator to the third party.

21. A method of identifying items of
interest to a user of a wireless communicator that are
within a predetermined proximity of a geographic
location of the user, wherein the wireless communicator

5 communicates via a communications network operated by a
carrier, the method comprising the following steps:
notifying the carrier of a geographic
location of the wireless communicator; and
receiving information about one or more items
10 of interest to the user that are located within a
predetermined proximity of the geographic location of
the wireless communicator.

22. The method according to Claim 21,
wherein the wireless communicator has a navigational
system configured to determine a geographic location of
the wireless communicator.

23. The method according to Claim 21,
wherein the communications network includes a short
message service (SMS), and wherein the step of sending
information about a geographic location of the wireless
5 communicator to the carrier comprises sending an SMS
message from the wireless communicator to the carrier.

24. The method according to Claim 22,
wherein the step of receiving information about one or
more items of interest to the user comprises receiving
an SMS message.

25. The method according to Claim 22,
wherein the navigational system comprises a global
positioning system (GPS) receiver.

26. The method according to Claim 21,
wherein the predetermined proximity of the geographic
location of the wireless communicator is configurable
by the user via the wireless communicator.

27. The method according to Claim 21, wherein the step of receiving information about one or more items of interest to the user comprises receiving a voice communication.

28. The method according to Claim 21, wherein the step of sending information about a geographic location of the wireless communicator from the wireless communicator to the carrier further
5 comprises sending the geographic location information from the carrier to a third party.

29. The method according to Claim 28, wherein the step of receiving information about one or more items of interest to the user comprises receiving the information from the third party.

30. The method according to Claim 28, further comprising the step of authorizing the carrier to send the location information to the third party.

31. The method according to Claim 21, further comprising the step of registering one or more user interests with the carrier.

32. The method according to Claim 28, further comprising the step of registering one or more user interests with the third party.

33. A method of identifying items of interest that are within a predetermined proximity of a geographic location, the method comprising the following steps:

5 receiving an identification of a geographic location from a user via a communications network;
comparing the identified geographic location

with a geographic location of one or more items of interest to the user; and

10 notifying the user of one or more items of interest to the user that are located within a predetermined proximity of the identified geographic location.

34. The method according to Claim 33, wherein the communications network includes a short message service (SMS) and wherein the receiving step comprises receiving an SMS message from a wireless
5 communicator.

35. The method according to Claim 34, wherein the notifying step comprises sending an SMS message to the wireless communicator.

36. The method according to Claim 33, wherein the notifying step comprises sending a voice communication to a wireless communicator of the user.

37. The method according to Claim 33, wherein the notifying step further comprises the step of providing the user with additional information about one or more items of interest to the user that are
5 located within a predetermined proximity of the identified geographic location.

38. The method according to Claim 37, wherein geographic location information about items of interest to the user is maintained by a communications network carrier.

39. The method according to Claim 37, wherein the carrier sends the identified geographic

location to a third party, and wherein the comparing and notifying steps are performed by the third party.

40. A method of identifying items of interest to a user, the method comprising the following steps performed by a communications device:

5 sending an identification of a geographic location to a communications network carrier; and
 receiving information about one or more items of interest to the user that are located within a predetermined proximity of the identified geographic location.

41. The method according to Claim 40, wherein the communications network includes a short message service (SMS), and wherein the sending step comprises sending an SMS message from the
5 communications device to the carrier.

42. The method according to Claim 41, wherein the step of receiving information about the one or more items of interest to the user comprises receiving an SMS message.

43. The method according to Claim 40, wherein the predetermined proximity of an identified location is configurable by the user via the communications device.

44. The method according to Claim 40, wherein the step of receiving information about one or more items of interest to the user comprises receiving a voice communication.

45. The method according to Claim 40,

wherein interests of a user and geographic location information about items associated with user interests are maintained by the carrier.

46. The method according to Claim 40, wherein the sending step comprises sending the identified geographic location to a third party, and wherein the receiving step comprises receiving
5 information about one or more items of interest to the user that are located within a predetermined proximity of the identified geographic location from the third party.

47. The method according to Claim 40, further comprising the step of authorizing the carrier to send the location information to the third party.

48. The method according to Claim 40, further comprising the step of registering one or more user interests with the carrier.

49. The method according to Claim 46, further comprising the step of registering one or more user interests with the third party.

50. A system that identifies items of interest to a user of a wireless communicator that are within a predetermined proximity of a geographic location of the user, comprising:

5 a communications network operated by a carrier;

means for detecting a geographic location of the wireless communicator when the wireless communicator communicates via the communications
10 network;

means for comparing the detected geographic location of the wireless communicator with a geographic location of one or more items of interest to the user; and

15 means for notifying the user when one or more items of interest to the user are located within a predetermined proximity of the detected geographic location of the wireless communicator.

51. The system according to Claim 50, wherein the wireless communicator is a radiotelephone and wherein the communications network is a cellular radiotelephone network having a plurality of
5 geographically-dispersed base stations, and wherein the detecting means comprises means for determining which base station the wireless communicator is in communications with.

52. The system according to Claim 50, wherein the predetermined proximity of a detected geographic location is configurable by the user via the wireless communicator.

53. The system according to Claim 50, wherein the communications network includes a short message service (SMS) and wherein the notifying means comprises means for sending an SMS message to the
5 wireless communicator.

54. The system according to Claim 50, wherein the notifying means comprises means for sending a voice communication to the wireless communicator.

55. The system according to Claim 50, wherein the notifying means further comprises means for

providing the user with additional information about
the one or more items of interest that are located
5 within a predetermined proximity of the detected
geographic location of the wireless communicator.

56. The system according to Claim 50,
wherein interests of the user and geographic location
information for items associated with user interests
are maintained by the carrier.

57. The system according to Claim 50,
further comprising means for sending the detected
geographic location of the wireless communicator to a
third party system, wherein the third party system
5 comprises:

means for comparing the detected geographic
location of the wireless communicator with a geographic
location of one or more items of interest to the user;
and

10 means for notifying the user when one or more
items of interest to the user are located within a
predetermined proximity of the detected geographic
location of the wireless communicator.

58. The system according to Claim 57,
further comprising means for obtaining user
authorization to send the detected geographic location
of the wireless communicator to the third party system.

59. A system that identifies items of
interest to a user of a wireless communicator that are
within a predetermined proximity of a geographic
location of the user, comprising:

5 a communications network operated by a
carrier;

means for receiving information from the wireless communicator that indicates a geographic location of the wireless communicator when the wireless
10 communicator communicates via the communications network;

means for comparing the geographic location of the wireless communicator with a geographic location of one or more items of interest to the user; and

15 means for notifying the user when one or more items of interest to the user are located within a predetermined proximity of the geographic location of the wireless communicator.

60. The system according to Claim 59, wherein the wireless communicator has a navigational system configured to determine a geographic location of the wireless communicator.

61. The system according to Claim 59, wherein the communications network includes a short message service (SMS) and wherein the receiving means comprises means for receiving an SMS message from the
5 wireless communicator.

62. The system according to Claim 60, wherein the navigational system of the wireless communicator comprises a global positioning system (GPS) receiver.

63. The system according to Claim 59, wherein the predetermined proximity of the geographic location of the wireless communicator is configurable by the user via the wireless communicator.

64. The system according to Claim 59,

wherein the communications network includes a short message service (SMS) and wherein the notifying means comprises means for sending an SMS message to the
5 wireless communicator.

65. The system according to Claim 59, wherein the notifying means comprises means for sending a voice communication to the wireless communicator.

66. The system according to Claim 59, wherein the notifying means further comprises means for providing the user with additional information about the one or more items of interest that are located
5 within a predetermined proximity of the detected geographic location of the wireless communicator.

67. The system according to Claim 59, wherein interests of a user and geographic location information about items associated with user interests are maintained by the carrier.

68. The system according to Claim 59, further comprising means for sending the detected geographic location of the wireless communicator to a third party system, and wherein the third party system
5 comprises means for comparing the detected geographic location of the wireless communicator with a geographic location of one or more items of interest to the user, and means for notifying the user when one or more items of interest to the user are located within a
10 predetermined proximity of the detected geographic location of the wireless communicator.

69. The system according to Claim 68, further comprising means for obtaining user

authorization to send the detected geographic location of the wireless communicator to the third party system.

70. A wireless communicator that communicates via a communications network operated by a carrier, comprising:

- 5 means for notifying the carrier of a geographic location of the wireless communicator; and
- means for receiving information about one or more items of interest to a user of the wireless communicator that are located within a predetermined proximity of the geographic location of the wireless
- 10 communicator.

71. The wireless communicator according to Claim 70, further comprising a navigational system that is configured to determine a geographic location of the wireless communicator.

72. The wireless communicator according to Claim 70, wherein the communications network includes a short message service (SMS), and wherein the notifying means comprises means for sending an SMS message from
- 5 the wireless communicator to the carrier.

73. The wireless communicator according to Claim 71, wherein the means for receiving information about one or more items of interest to the user comprises means for receiving an SMS message..

74. The wireless communicator according to Claim 71, wherein the navigational system comprises a global positioning system (GPS) receiver.

75. The wireless communicator according to

Claim 70, wherein the predetermined proximity of the geographic location of the wireless communicator is configurable by the user via the wireless communicator.

76. The wireless communicator according to Claim 70, wherein the means for receiving information about one or more items of interest to the user comprises means for receiving a voice communication.

77. The wireless communicator according to Claim 70, wherein the means for sending information about a geographic location of the wireless communicator from the wireless communicator to the carrier further comprises means for sending the geographic location information from the carrier to a third party.

78. The wireless communicator according to Claim 77, wherein the means for receiving information about one or more items of interest to the user comprises means for receiving the information from the third party.

79. The wireless communicator according to Claim 77, further comprising means for authorizing the carrier to send the location information to the third party.

80. The wireless communicator according to Claim 70, further comprising means for registering one or more user interests with the carrier.

81. The wireless communicator according to Claim 77, further comprising means for registering one or more user interests with the third party.

82. A system that identifies items of interest to a user of a wireless communicator that are within a predetermined proximity of a geographic location of the user, comprising:

5 a communications network operated by a carrier;

means for receiving an identification of a geographic location from the wireless communicator;

10 means for comparing the identified geographic location with a geographic location of one or more items of interest to the user; and

15 means for notifying the user of one or more items of interest to the user that are located within a predetermined proximity of the identified geographic location.

83. The system according to Claim 82, wherein the communications network includes a short message service (SMS) and wherein the receiving means comprises means for receiving an SMS message from the wireless communicator.

84. The system according to Claim 83, wherein the notifying means comprises means for sending an SMS message to the wireless communicator.

85. The system according to Claim 82, wherein the notifying means comprises means for sending a voice communication to the wireless communicator.

86. The system according to Claim 82, wherein the notifying means further comprises means for providing the user with additional information about one or more items of interest to the user that are
5 located within a predetermined proximity of the identified geographic location.

87. The system according to Claim 86, wherein geographic location information about items of interest to the user is maintained by the carrier.

88. The system according to Claim 86, further comprising means for sending the identified geographic location to a third party system, and wherein the third party system comprises means for
5 comparing the identified geographic location with a geographic location of one or more items of interest to the user, and means for notifying the user when one or more items of interest to the user are located within a predetermined proximity of the identified geographic
10 location.

89. A communications device that communicates via communications network operated by a carrier, comprising:

5 means for sending an identification of a geographic location to the carrier; and

means for receiving information about one or more items of interest to a user of the communications device that are located within a predetermined proximity of the identified geographic location.

90. The communications device according to Claim 89, wherein the communications network includes a short message service (SMS), and wherein the sending means comprises means for sending an SMS message from
5 the communications device to the carrier.

91. The communications device according to Claim 90, wherein the means for receiving information about the one or more items of interest to the user comprises means for receiving an SMS message.

92. The communications device according to Claim 89, wherein the predetermined proximity of an identified location is configurable by the user via the communications device.

93. The communications device according to Claim 89, wherein the means for receiving information about one or more items of interest to the user comprises means for receiving a voice communication.

94. The communications device according to Claim 89, wherein the sending means comprises means for sending the identified geographic location to a third party, and wherein the receiving means comprises means for receiving information about one or more items of interest to the user that are located within a predetermined proximity of the identified geographic location from the third party.

95. The communications device according to Claim 89, further comprising means for authorizing the carrier to send the location information to the third party.

96. The communications device according to Claim 89, further comprising means for registering one or more user interests with the carrier.

97. The communications device according to Claim 94, further comprising means for registering one or more user interests with the third party.

98. A computer program product that identifies items of interest to a user of a wireless communicator that are within a predetermined proximity of a geographic location of the user, wherein the

5 wireless communicator communicates via a communications network operated by a carrier, the computer program product comprising a computer usable storage medium having computer readable program code embodied in the medium, the computer readable program code comprising:

10 computer readable program code that detects a geographic location of the wireless communicator;

computer readable program code that compares the detected geographic location of the wireless communicator with a geographic location of one or more

15 items of interest to the user; and

computer readable program code that notifies the user when one or more items of interest to the user are located within a predetermined proximity of the detected geographic location of the wireless

20 communicator.

99. The computer program product according to Claim 98, wherein the wireless communicator is a radiotelephone and wherein the communications network is a cellular radiotelephone network having a plurality

5 of geographically-dispersed base stations, and wherein the computer readable program code that detects a geographic location of the wireless communicator comprises computer readable program code that determines which base station the wireless communicator

10 is in communications with.

100. The computer program product according to Claim 98, wherein the predetermined proximity of a detected geographic location is configurable by the user via the wireless communicator.

101. The computer program product according to Claim 98, wherein the communications network

includes a short message service (SMS) and wherein the computer readable program code that notifies the user
5 when one or more items of interest to the user are located within a predetermined proximity of the detected geographic location of the wireless communicator comprises computer readable program code that sends an SMS message to the wireless communicator.

102. The computer program product according to Claim 98, wherein the computer readable program code that notifies the user when one or more items of interest to the user are located within a predetermined
5 proximity of the detected geographic location of the wireless communicator comprises computer readable program code that sends a voice communication to the wireless communicator.

103. The computer program product according to Claim 98, wherein the computer readable program code that notifies the user when one or more items of interest to the user are located within a predetermined
5 proximity of the detected geographic location of the wireless communicator further comprises computer readable program code that provides the user with additional information about the one or more items of interest that are located within a predetermined
10 proximity of the detected geographic location of the wireless communicator.

104. The computer program product according to Claim 98, wherein interests of the user and geographic location information for items associated with user interests are maintained by the carrier.

105. The computer program product according

to Claim 98, further comprising computer readable program code that sends the detected geographic location of the wireless communicator to a third party.

106. The computer program product according to Claim 105, further comprising computer readable program code that obtains user authorization to send the detected geographic location of the wireless communicator to the third party.

107. A computer program product that identifies items of interest to a user of a wireless communicator that are within a predetermined proximity of a geographic location of the user, wherein the wireless communicator communicates via a communications network operated by a carrier, the computer program product comprising a computer usable storage medium having computer readable program code embodied in the medium, the computer readable program code comprising:

computer readable program code that receives information from the wireless communicator that indicates a geographic location of the wireless communicator;

computer readable program code that compares the geographic location of the wireless communicator with a geographic location of one or more items of interest to the user; and

computer readable program code that notifies the user when one or more items of interest to the user are located within a predetermined proximity of the geographic location of the wireless communicator.

108. The computer program product according to Claim 107, wherein the communications network includes a short message service (SMS) and wherein the

5 computer readable program code that receives information from the wireless communicator that indicates a geographic location of the wireless communicator comprises computer readable program code that receives an SMS message from the wireless communicator.

109. The computer program product according to Claim 107, wherein the communications network includes a short message service (SMS) and wherein the computer readable program code that notifies the user
5 when one or more items of interest to the user are located within a predetermined proximity of the geographic location of the wireless communicator comprises computer readable program code that sends an SMS message to the wireless communicator.

110. The computer program product according to Claim 107, wherein the computer readable program code that notifies the user when one or more items of interest to the user are located within a predetermined
5 proximity of the geographic location of the wireless communicator comprises computer readable program code that sends a voice communication to the wireless communicator.

111. The computer program product according to Claim 107, wherein the computer readable program code that notifies the user when one or more items of interest to the user are located within a predetermined
5 proximity of the geographic location of the wireless communicator further comprises computer readable program code that provides the user with additional information about the one or more items of interest that are located within a predetermined proximity of

10 the detected geographic location of the wireless
communicator.

112. The computer program product according
to Claim 107, further comprising computer readable
program code that sends the detected geographic
location of the wireless communicator to a third party.

113. The computer program product according
to Claim 112, further comprising computer readable
program code that obtains user authorization to send
the detected geographic location of the wireless
5 communicator to the third party.

114. A computer program product that
identifies items of interest to a user of a wireless
communicator that are within a predetermined proximity
of a geographic location of the user, wherein the
5 wireless communicator communicates via a communications
network operated by a carrier, the computer program
product comprising a computer usable storage medium
having computer readable program code embodied in the
medium, the computer readable program code comprising:
10 computer readable program code that receives
an identification of a geographic location from the
wireless communicator;

computer readable program code that compares
the identified geographic location with a geographic
15 location of one or more items of interest to the user;
and

computer readable program code that notifies
the user of one or more items of interest to the user
that are located within a predetermined proximity of
20 the identified geographic location.

115. The computer program product according to Claim 114, wherein the communications network includes a short message service (SMS) and wherein the computer readable program code that receives an
5 identification of a geographic location from the wireless communicator comprises computer readable program code that receives an SMS message from the wireless communicator.

116. The computer program product according to Claim 115, wherein the computer readable program code that notifies the user of one or more items of interest to the user that are located within a
5 predetermined proximity of the identified geographic location comprises computer readable program code that sends an SMS message to the wireless communicator..

117. The computer program product according to Claim 114, wherein the computer readable program code that notifies the user of one or more items of interest to the user that are located within a
5 predetermined proximity of the identified geographic location comprises computer readable program code that sends a voice communication to the wireless communicator.

118. The computer program product according to Claim 114, wherein the computer readable program code that notifies the user of one or more items of interest to the user that are located within a
5 predetermined proximity of the identified geographic location further comprises computer readable program code that provides the user with additional information about one or more items of interest to the user that are located within a predetermined proximity of the
10 identified geographic location.

119. The computer program product according to Claim 118, further comprising computer readable program code that sends the identified geographic location to a third party.

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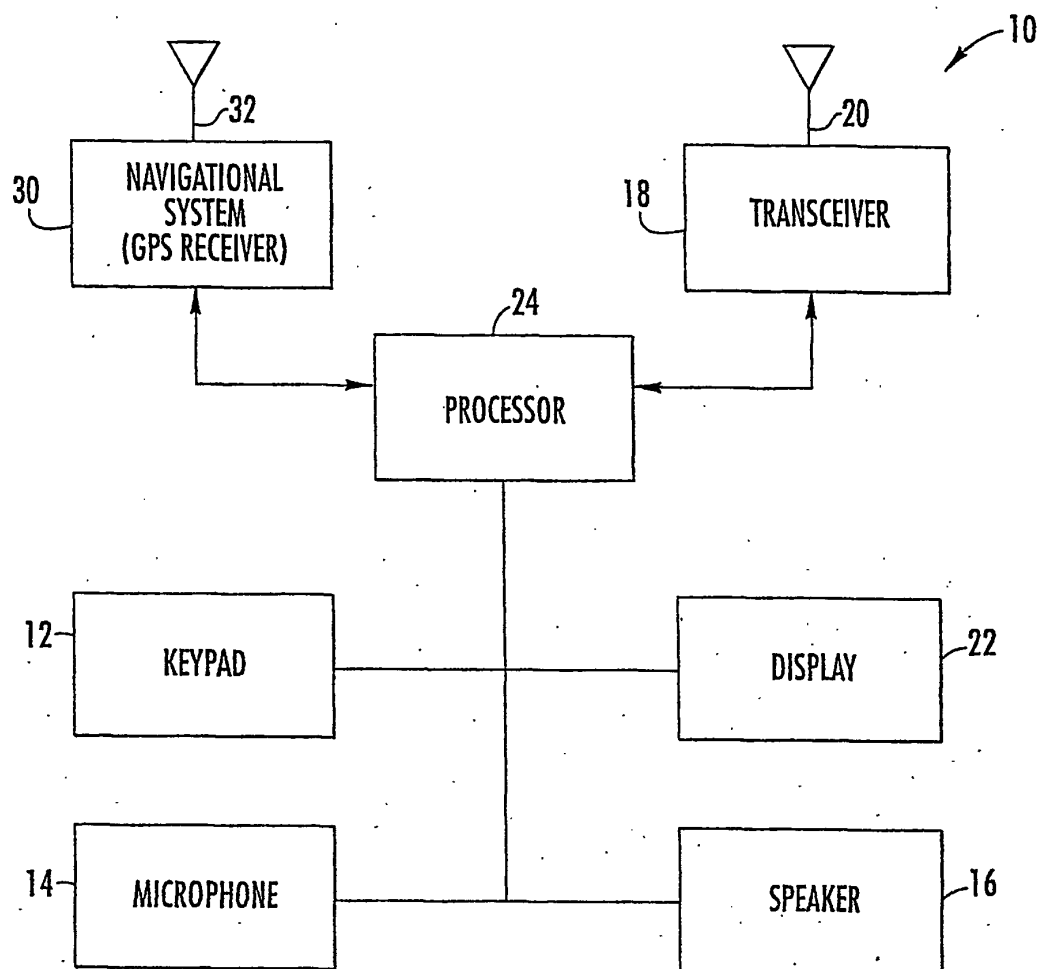


FIG. 1.

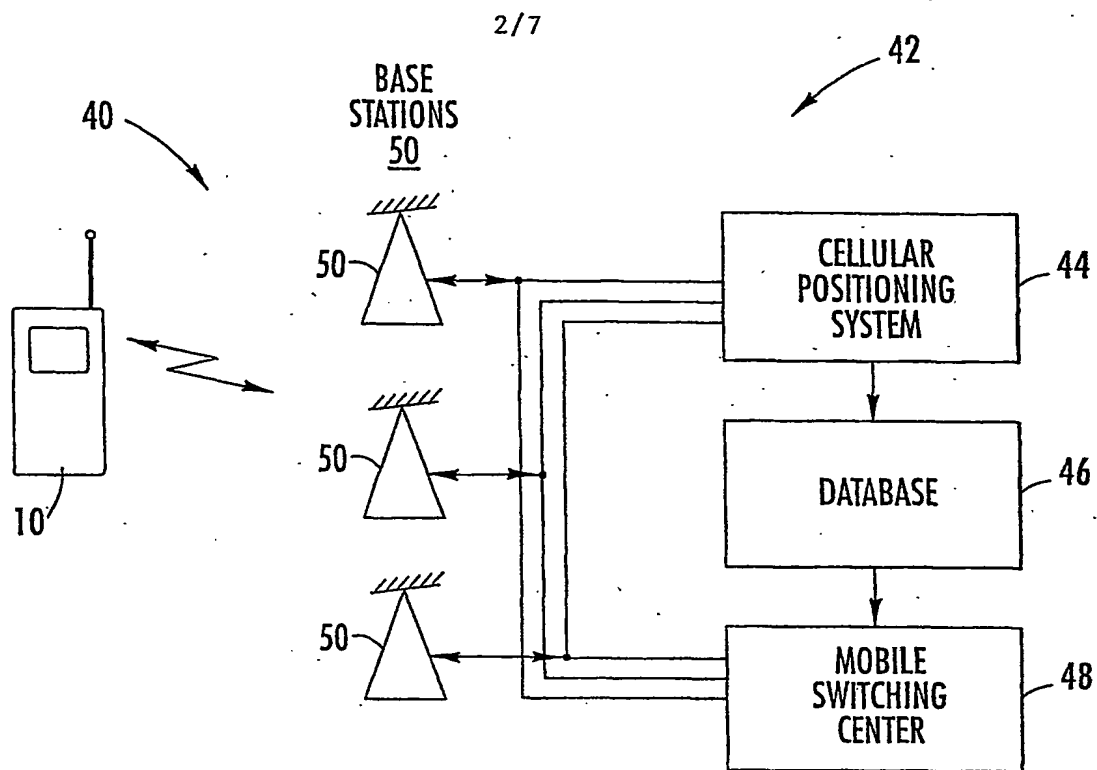
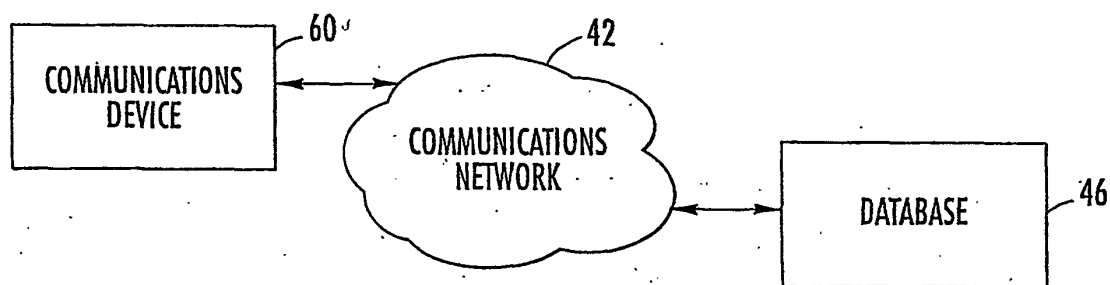
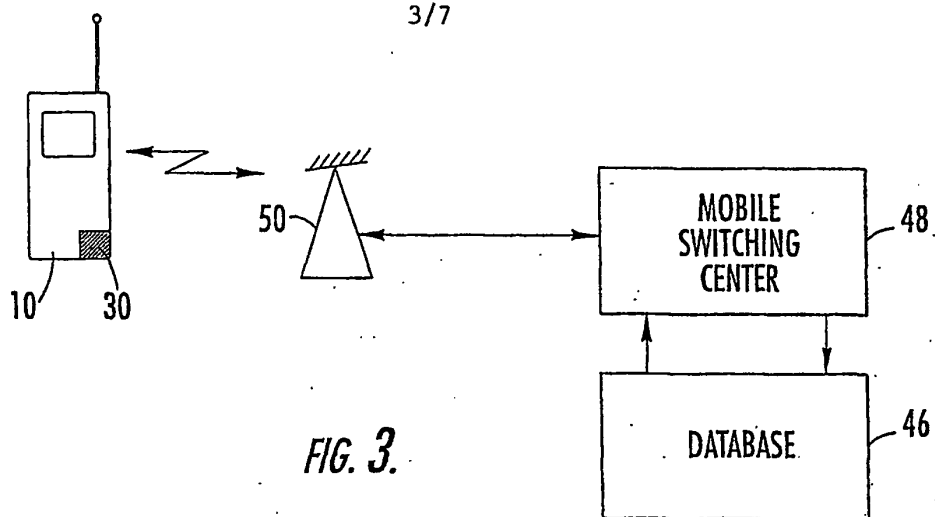


FIG. 2.

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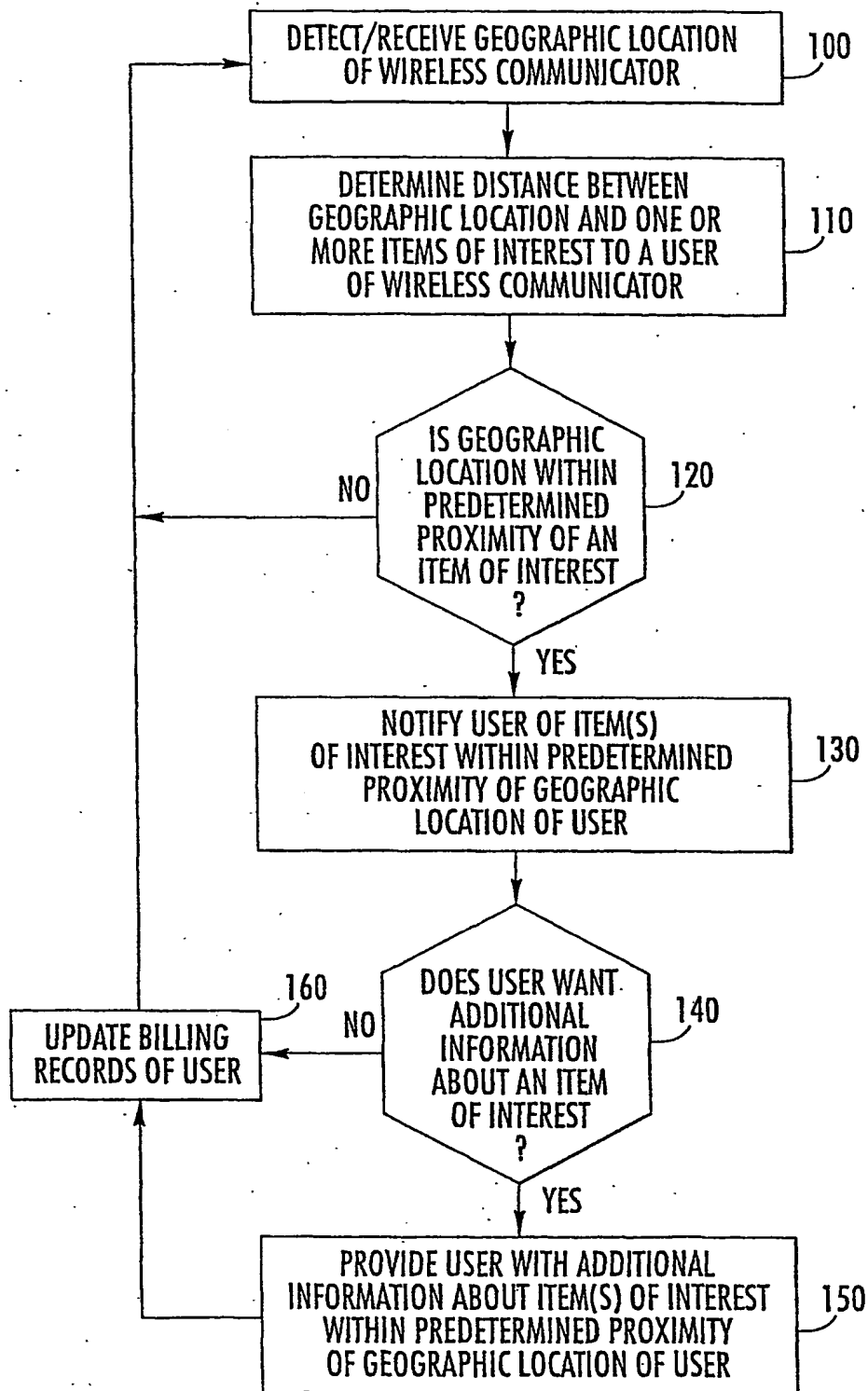
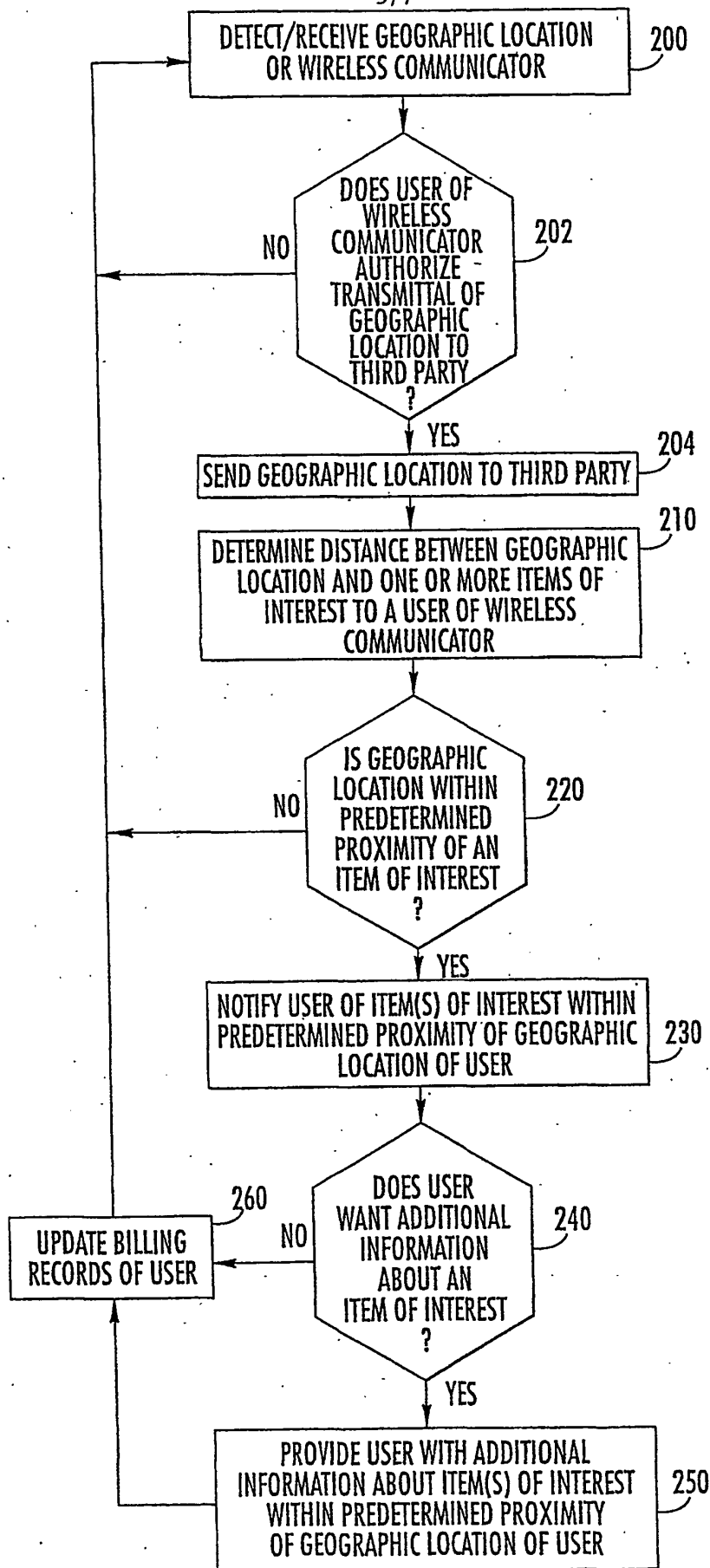


FIG. 5.

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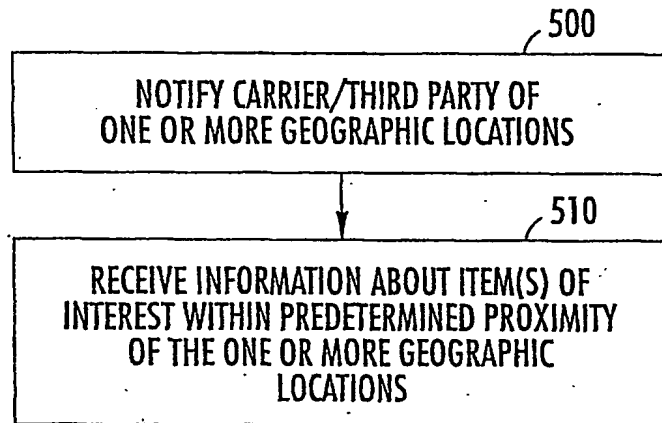


FIG. 9.

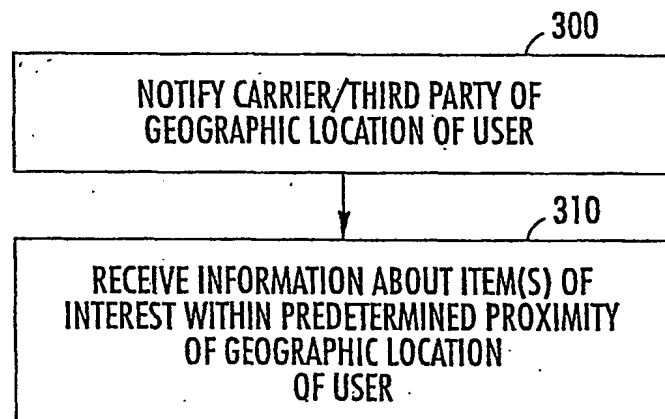


FIG. 7.

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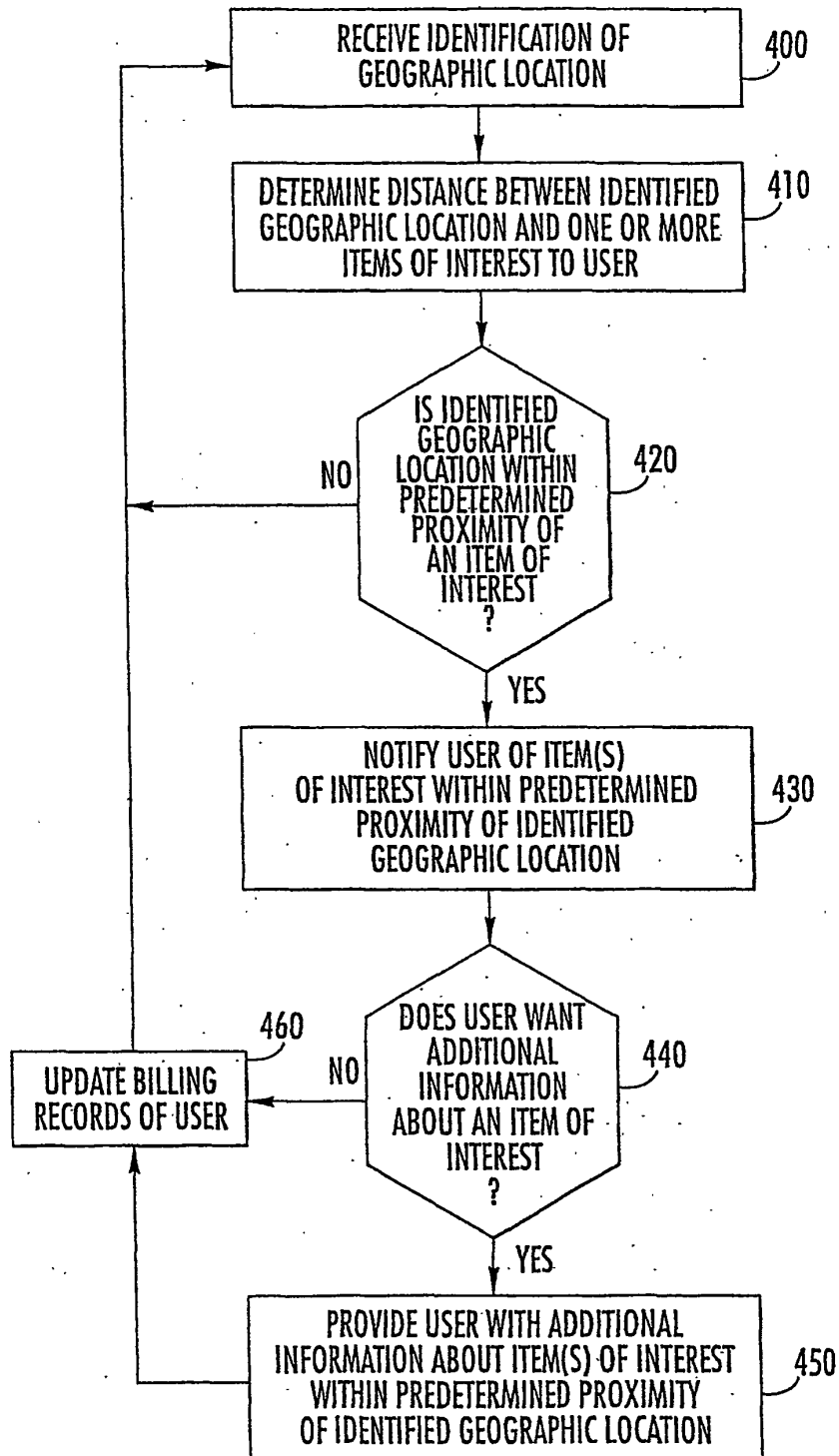


FIG. 8.